

June 06, 2016

Meagan E. Ormand  
Golder Associates Inc.  
2108 W. Laburnum Ave.  
Suite 200  
Richmond, VA 23227

RE: Project: BREMO WEEKLY PROCESS  
Pace Project No.: 92300031

Dear Meagan Ormand:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nicole Gasiorowski  
nicole.gasiorowski@pacelabs.com  
Project Manager

Enclosures

cc: Ron DiFrancesco, Golder Associates Inc.  
Martha Smith, Golder Associates Inc.  
Mike Williams, Golder Associates Inc



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Connecticut Certification #: PH-0216  
Delaware Certification: FL NELAC Reciprocity  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14  
Nevada Certification: FL NELAC Reciprocity  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
North Dakota Certification #: R-216  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
Wyoming Certification: FL NELAC Reciprocity  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

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### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92300031001	T1-160603-1040-S3	EPA 1664B	JMS	1	PASI-C
		EPA 200.7	CKJ	1	PASI-O
		Trivalent Chromium Calculation	CKJ	1	PASI-O
		EPA 200.8	CKJ	10	PASI-O
		EPA 245.1	SH1	1	PASI-A
		SM 2540D	MJP	1	PASI-A
		EPA 218.7	AEM	1	PASI-O
		EPA 350.1	AES2	1	PASI-A
		SM 4500-CI-E	AES2	1	PASI-A
92300031002	T2-160603-1325-S3	EPA 1664B	JMS	1	PASI-C
		EPA 200.7	CKJ	1	PASI-O
		Trivalent Chromium Calculation	CKJ	1	PASI-O
		EPA 200.8	CKJ	10	PASI-O
		EPA 245.1	SH1	1	PASI-A
		SM 2540D	MJP	1	PASI-A
		EPA 218.7	AEM	1	PASI-O
		EPA 350.1	AES2	1	PASI-A
		SM 4500-CI-E	AES2	1	PASI-A

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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**Method:** EPA 1664B

**Description:** HEM, Oil and Grease

**Client:** Golder\_Dominion\_Bremo

**Date:** June 06, 2016

### General Information:

2 samples were analyzed for EPA 1664B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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**Method:** EPA 200.7

**Description:** 200.7 MET ICP

**Client:** Golder\_Dominion\_Bremo

**Date:** June 06, 2016

### General Information:

2 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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**Method:** Trivalent Chromium Calculation

**Description:** Trivalent Chromium Calculation

**Client:** Golder\_Dominion\_Bremo

**Date:** June 06, 2016

### General Information:

2 samples were analyzed for Trivalent Chromium Calculation. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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**Method:** EPA 200.8

**Description:** 200.8 MET ICPMS

**Client:** Golder\_Dominion\_Bremo

**Date:** June 06, 2016

**General Information:**

2 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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**Method:** EPA 245.1

**Description:** 245.1 Mercury

**Client:** Golder\_Dominion\_Bremo

**Date:** June 06, 2016

### General Information:

2 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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**Method:** SM 2540D

**Description:** 2540D TSS, Low-Level

**Client:** Golder\_Dominion\_Bremo

**Date:** June 06, 2016

### General Information:

2 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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**Method:** EPA 218.7

**Description:** Hexavalent Chromium by IC

**Client:** Golder\_Dominion\_Bremo

**Date:** June 06, 2016

### General Information:

2 samples were analyzed for EPA 218.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/58463

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92300031001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1595783)
- Chromium, Hexavalent

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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**Method:** EPA 350.1

**Description:** 350.1 Ammonia

**Client:** Golder\_Dominion\_Bremo

**Date:** June 06, 2016

**General Information:**

2 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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**Method:** SM 4500-CI-E

**Description:** 4500 Chloride

**Client:** Golder\_Dominion\_Bremo

**Date:** June 06, 2016

### General Information:

2 samples were analyzed for SM 4500-CI-E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

Sample: T1-160603-1040-S3		Lab ID: 92300031001		Collected: 06/03/16 10:40		Received: 06/03/16 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data		Analytical Method:							
Collected By	B. DIEHL			1		06/03/16 10:50			
Collected Date	06/03/16			1		06/03/16 10:50			
Collected Time	10:40			1		06/03/16 10:50			
Field pH	8.2	Std. Units	0.10	1		06/03/16 10:50			
HEM, Oil and Grease		Analytical Method: EPA 1664B							
Oil and Grease	ND	mg/L	5.0	1		06/04/16 12:07			
200.7 MET ICP		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Tot Hardness asCaCO3 (SM 2340B	77700	ug/L	3300	1	06/04/16 12:46	06/04/16 17:00			
Trivalent Chromium Calculation		Analytical Method: Trivalent Chromium Calculation							
Chromium, Trivalent	ND	ug/L	5.0	1		06/06/16 15:44	16065-83-1		
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Antimony	ND	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:34	7440-36-0		
Arsenic	37.4	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:34	7440-38-2		
Cadmium	ND	ug/L	1.0	1	06/04/16 12:46	06/04/16 16:34	7440-43-9		
Copper	ND	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:34	7440-50-8		
Lead	ND	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:34	7439-92-1		
Nickel	ND	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:34	7440-02-0		
Selenium	ND	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:34	7782-49-2		
Silver	ND	ug/L	0.40	1	06/04/16 12:46	06/04/16 16:34	7440-22-4		
Thallium	ND	ug/L	1.0	1	06/04/16 12:46	06/04/16 16:34	7440-28-0		
Zinc	ND	ug/L	25.0	1	06/04/16 12:46	06/04/16 16:34	7440-66-6		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.10	1	06/04/16 13:00	06/04/16 15:38	7439-97-6		
2540D TSS, Low-Level		Analytical Method: SM 2540D							
Total Suspended Solids	1.2	mg/L	1.0	1		06/04/16 11:38			
Hexavalent Chromium by IC		Analytical Method: EPA 218.7							
Chromium, Hexavalent	ND	ug/L	3.0	3		06/06/16 12:02	18540-29-9	M1	
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.20	1		06/04/16 12:46	7664-41-7		
4500 Chloride		Analytical Method: SM 4500-Cl-E							
Chloride	19.3	mg/L	5.0	1		06/04/16 12:31	16887-00-6		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

Sample: T2-160603-1325-S3		Lab ID: 92300031002		Collected: 06/03/16 13:25		Received: 06/03/16 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data		Analytical Method:							
Collected By	B. DIEHL			1		06/03/16 13:30			
Collected Date	06/03/16			1		06/03/16 13:30			
Collected Time	13:25			1		06/03/16 13:30			
Field pH	8.1	Std. Units	0.10	1		06/03/16 13:30			
HEM, Oil and Grease		Analytical Method: EPA 1664B							
Oil and Grease	ND	mg/L	5.0	1		06/04/16 12:07			
200.7 MET ICP		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Tot Hardness asCaCO3 (SM 2340B	72100	ug/L	3300	1	06/04/16 12:46	06/04/16 17:04			
Trivalent Chromium Calculation		Analytical Method: Trivalent Chromium Calculation							
Chromium, Trivalent	ND	ug/L	5.0	1		06/06/16 15:44	16065-83-1		
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Antimony	ND	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:37	7440-36-0		
Arsenic	29.2	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:37	7440-38-2		
Cadmium	ND	ug/L	1.0	1	06/04/16 12:46	06/04/16 16:37	7440-43-9		
Copper	ND	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:37	7440-50-8		
Lead	ND	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:37	7439-92-1		
Nickel	ND	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:37	7440-02-0		
Selenium	ND	ug/L	5.0	1	06/04/16 12:46	06/04/16 16:37	7782-49-2		
Silver	ND	ug/L	0.40	1	06/04/16 12:46	06/04/16 16:37	7440-22-4		
Thallium	ND	ug/L	1.0	1	06/04/16 12:46	06/04/16 16:37	7440-28-0		
Zinc	ND	ug/L	25.0	1	06/04/16 12:46	06/04/16 16:37	7440-66-6		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.10	1	06/04/16 13:00	06/04/16 15:45	7439-97-6		
2540D TSS, Low-Level		Analytical Method: SM 2540D							
Total Suspended Solids	1.1	mg/L	1.0	1		06/04/16 11:39			
Hexavalent Chromium by IC		Analytical Method: EPA 218.7							
Chromium, Hexavalent	ND	ug/L	3.0	3		06/06/16 12:41	18540-29-9		
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.20	1		06/04/16 12:51	7664-41-7		
4500 Chloride		Analytical Method: SM 4500-Cl-E							
Chloride	16.3	mg/L	5.0	1		06/04/16 12:34	16887-00-6		

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

QC Batch: GCSV/25172

Analysis Method: EPA 1664B

QC Batch Method: EPA 1664B

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 92300031001, 92300031002

METHOD BLANK: 1748561

Matrix: Water

Associated Lab Samples: 92300031001, 92300031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/04/16 12:06	

LABORATORY CONTROL SAMPLE: 1748562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	37.7	94	78-114	

MATRIX SPIKE SAMPLE: 1748563

Parameter	Units	92300031002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40	38.8	97	78-114	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

QC Batch: MERP/9538

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 92300031001, 92300031002

METHOD BLANK: 1748550

Matrix: Water

Associated Lab Samples: 92300031001, 92300031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.10	06/04/16 15:34	

LABORATORY CONTROL SAMPLE: 1748551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1748552 1748553

Parameter	Units	92300031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.6	101	101	70-130	1	

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## QUALITY CONTROL DATA

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

QC Batch: MPRP/30839

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 MET

Associated Lab Samples: 92300031001, 92300031002

METHOD BLANK: 1595441

Matrix: Water

Associated Lab Samples: 92300031001, 92300031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tot Hardness asCaCO3 (SM 2340B	ug/L	ND	3300	06/04/16 16:37	

LABORATORY CONTROL SAMPLE: 1595442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B	ug/L	82700	85700	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595443 1595444

Parameter	Units	92300032001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Tot Hardness asCaCO3 (SM 2340B	ug/L	77700	82700	82700	167000	162000	108	102	70-130	3	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

QC Batch: MPRP/30840 Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET  
Associated Lab Samples: 92300031001, 92300031002

METHOD BLANK: 1595445 Matrix: Water

Associated Lab Samples: 92300031001, 92300031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	06/04/16 16:30	
Arsenic	ug/L	ND	5.0	06/04/16 16:30	
Cadmium	ug/L	ND	1.0	06/04/16 16:30	
Copper	ug/L	ND	5.0	06/04/16 16:30	
Lead	ug/L	ND	5.0	06/04/16 16:30	
Nickel	ug/L	ND	5.0	06/04/16 16:30	
Selenium	ug/L	ND	5.0	06/04/16 16:30	
Silver	ug/L	ND	0.40	06/04/16 16:30	
Thallium	ug/L	ND	1.0	06/04/16 16:30	
Zinc	ug/L	ND	25.0	06/04/16 16:30	

LABORATORY CONTROL SAMPLE: 1595446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.4	97	85-115	
Arsenic	ug/L	50	52.9	106	85-115	
Cadmium	ug/L	5	5.0	99	85-115	
Copper	ug/L	50	53.0	106	85-115	
Lead	ug/L	50	50.6	101	85-115	
Nickel	ug/L	50	52.1	104	85-115	
Selenium	ug/L	50	55.0	110	85-115	
Silver	ug/L	5	5.1	102	85-115	
Thallium	ug/L	50	51.7	103	85-115	
Zinc	ug/L	250	267	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595447 1595448

Parameter	Units	92300031002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	50	50	51.9	52.3	98	98	70-130	1	
Arsenic	ug/L	29.2	50	50	82.1	81.7	106	105	70-130	1	
Cadmium	ug/L	ND	5	5	5.0	4.9	101	99	70-130	2	
Copper	ug/L	ND	50	50	51.7	52.4	102	103	70-130	1	
Lead	ug/L	ND	50	50	51.4	51.0	103	102	70-130	1	
Nickel	ug/L	ND	50	50	51.8	52.6	102	103	70-130	1	
Selenium	ug/L	ND	50	50	54.0	53.2	105	103	70-130	1	
Silver	ug/L	ND	5	5	5.1	5.1	101	102	70-130	0	
Thallium	ug/L	ND	50	50	52.9	52.7	105	105	70-130	0	

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## QUALITY CONTROL DATA

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595447 1595448											
Parameter	Units	92300031002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Zinc	ug/L	ND	250	250	261	261	104	104	70-130	0	

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## QUALITY CONTROL DATA

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

QC Batch:	WET/45335	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	92300031001, 92300031002		

METHOD BLANK: 1748554 Matrix: Water

Associated Lab Samples: 92300031001, 92300031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	1.0	06/04/16 11:37	

LABORATORY CONTROL SAMPLE: 1748555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	250	246	98	90-110	

SAMPLE DUPLICATE: 1748556

Parameter	Units	92300031001 Result	Dup Result	RPD	Qualifiers
Total Suspended Solids	mg/L	1.2	1.2	0	

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## QUALITY CONTROL DATA

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

QC Batch: WETA/58463

Analysis Method: EPA 218.7

QC Batch Method: EPA 218.7

Analysis Description: Chromium, Hexavalent IC

Associated Lab Samples: 92300031001, 92300031002

METHOD BLANK: 1595781

Matrix: Water

Associated Lab Samples: 92300031001, 92300031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	ug/L	ND	1.0	06/06/16 11:36	

LABORATORY CONTROL SAMPLE: 1595782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	ug/L	.075	.073J	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595783 1595784

Parameter	Units	92300031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	ug/L	ND	.22	.22	.76J	.74J	122	115	85-115	2	M1

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

QC Batch:	WETA/27829	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples: 92300031001, 92300031002			

METHOD BLANK: 1748557 Matrix: Water

Associated Lab Samples: 92300031001, 92300031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.20	06/04/16 12:43	

LABORATORY CONTROL SAMPLE: 1748558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1748559 1748560

Parameter	Units	92300031001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Nitrogen, Ammonia	mg/L	ND	5	5	5.0	5.0	99	99	90-110	0			

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## QUALITY CONTROL DATA

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

QC Batch:	WETA/27830	Analysis Method:	SM 4500-Cl-E
QC Batch Method:	SM 4500-Cl-E	Analysis Description:	4500 Chloride
Associated Lab Samples: 92300031001, 92300031002			

METHOD BLANK: 1748564 Matrix: Water

Associated Lab Samples: 92300031001, 92300031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/04/16 12:29	

LABORATORY CONTROL SAMPLE: 1748565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.4	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1748566 1748567

Parameter	Units	92300031001		MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.							
Chloride	mg/L	19.3	10	10	28.9	28.7	97	94	90-110	1		

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## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: BREMO WEEKLY PROCESS

Pace Project No.: 92300031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92300031001	T1-160603-1040-S3		FLD/		
92300031002	T2-160603-1325-S3		FLD/		
92300031001	T1-160603-1040-S3	EPA 1664B	GCSV/25172		
92300031002	T2-160603-1325-S3	EPA 1664B	GCSV/25172		
92300031001	T1-160603-1040-S3	EPA 200.7	MPRP/30839	EPA 200.7	ICP/18438
92300031002	T2-160603-1325-S3	EPA 200.7	MPRP/30839	EPA 200.7	ICP/18438
92300031001	T1-160603-1040-S3	Trivalent Chromium Calculation	ICP/18439		
92300031002	T2-160603-1325-S3	Trivalent Chromium Calculation	ICP/18439		
92300031001	T1-160603-1040-S3	EPA 200.8	MPRP/30840	EPA 200.8	ICPM/12457
92300031002	T2-160603-1325-S3	EPA 200.8	MPRP/30840	EPA 200.8	ICPM/12457
92300031001	T1-160603-1040-S3	EPA 245.1	MERP/9538	EPA 245.1	MERC/9171
92300031002	T2-160603-1325-S3	EPA 245.1	MERP/9538	EPA 245.1	MERC/9171
92300031001	T1-160603-1040-S3	SM 2540D	WET/45335		
92300031002	T2-160603-1325-S3	SM 2540D	WET/45335		
92300031001	T1-160603-1040-S3	EPA 218.7	WETA/58463		
92300031002	T2-160603-1325-S3	EPA 218.7	WETA/58463		
92300031001	T1-160603-1040-S3	EPA 350.1	WETA/27829		
92300031002	T2-160603-1325-S3	EPA 350.1	WETA/27829		
92300031001	T1-160603-1040-S3	SM 4500-CI-E	WETA/27830		
92300031002	T2-160603-1325-S3	SM 4500-CI-E	WETA/27830		

## REPORT OF LABORATORY ANALYSIS

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	Document Name: <b>Sample Condition Upon Receipt(SCUR)</b>	Document Revised: 26FEB2016 Page 1 of 2
	Document No.: <b>F-MEC-CS-009-rev.02</b>	Issuing Authority: Pace Mechanicsville Quality Office

**Sample Condition Upon Receipt**

Client Name:

Golder

Project #:

**WO#: 92300031**



Page 2 of 2 for Internal Use ONLY

Courier:

☐ Commercial

☐ Fed Ex

☒ Pace

☐ UPS

☐ USPS

☐ Other:

☐ Client

Custody Seal Present?

☒ Yes

☐ No

Seals Intact?

☒ Yes

☐ No

Packing Material:

☐ Bubble Wrap

☒ Bubble Bags

☐ None

☐ Other:

Thermometer:

☒ RMD001

☐

Type of Ice:

☒ Wet

☐ Blue

☐ None

☒ Samples on ice, cooling process has begun

Correction Factor: 0.0°C

Cooler Temp Corrected (°C):

1.1

Date/Initials Person Examining Contents 6-3-16

RSB

Temp should be above freezing to 6°C

USDA Regulated Soil ( ☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

			COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix: <u>WIN</u>			
All containers needing acid/base preservation have been checked?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)			
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Samples checked for dechlorination	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted:

Date/Time:

Comments/Resolution:

Project Manager SCURF Review:

NMG

Date:

6/6/16

Project Manager SRF Review:

NMG

Date:

6/6/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company:	Goldier Associates	Report To:	Mormand@golder.com	Attention:	Meagan Ormand
Address:	2108 W Laburnum Ave, Ste 200 Richmond, VA 23227	Copy To:	Martha_Smith@golder.com	Company Name:	Goldier Associates
Email To:	Mormand@golder.com	Purchase Order No.:	Ron_Difrancesco@golder.com	Address:	gaipdataentry_invoices@golder.com
Phone:	804-551-0129	Project Name:	Bremo Weekly Compliance Process	Pace Date:	
Requested Due Date/TAT:	24 HOUR	Project Number:	1520-347 220	Pace Project Manager:	
			Pace Profile #:		
			Site Location:	VA	
			STATE:		
			REGULATORY AGENCY		
			NPDES	GROUND WATER	DRINKING WATER
			UST	RCRA	OTHER

Section D Required Client Information		Valid Matrix Codes CODE		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives							↓ Analysis Test ↓							Requested Analysis Filtered (Y/N)							Pace Project No./ Lab I.D.					
MATRIX		CODE		COMPOSITE START		COMPOSITE END/GRAB											Y/N																			
DRINKING WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIRE AIR OTHER TISSUE		DW WW P SL OL WP AK OT TS																																		
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE																																				
ITEM #		MATRIX CODE (see valid codes to left)		SAMPLE TYPE (G=GRAB C=COMP)		DATE		TIME		DATE		TIME																								
1		T1-160603-1040-53		WW		6/3/16		10:40		6/3/16		10:40																							021 N	
2		T2-160603-1335-53		WW		6/3/16		13:35		6/3/16		13:35																							021 N	
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				DATE				TIME				ACCEPTED BY / AFFILIATION				DATE				TIME				SAMPLE CONDITIONS								
All analyses to be performed under Golden-Pace MSA dated 12/19/2008				Golder				6/3/16				1410				DMP				6/3				2:10				Y Y Y								

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	B. D. Chel
SIGNATURE of SAMPLER:	[Signature]
DATE Signed (MM/DD/YY):	6/3/16
Temp in °C	
Received on Ice (Y/N)	Y
Custody Sealed Cooler (Y/N)	Y
Samples Intact (Y/N)	Y